DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 2
PROPERTY ID #: 3784429503
COUNTY: Iredell

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: Mark Collins & APPLICATION DATE 12-9-15
ADDRESS: 415 New Sterling Rd. DATE EVALUATED: 1-11-16
PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.1949): 360gpd PROPERTY SIZE: 1.39 acres
LOCATION OF SITE: 128 Old Lion Rd. PROPERTY RECORDED: Yes
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other N/A
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	18% L	0-12	manipulated	77 6	48"	48"	48"	48"	PS 0.3
		12-29	C SBK quartz fragments	Fr Mod SE					
		29-48	Bc SAP Inc WSBK	Fr Mod SE					
		small	weathered rock vein						
		43-45"							
2	18% slight HS	0-12	manipulated	?	48"	48"	48"	48"	PS 0.275
		12-31	C SBK	Fr Mod SE					
		31-48	Bc SAP Incl WSBK	Fr Mod SE					
		Few	mag deposits						
		in	B horizon						
3	12% slight HS	0-23	Cl SAP Incl WSBK	Fr Mod SE	48"	23"	23"	23"	Need PITS
		23-48	SAP M	Fr					
4	13% slight HS	0-5	manipulated		48"	30"	30"	30"	Need PITS
		5-16	C SBLC	Fr Mod SE					
		16-30	Bc SAP Incl WSBLC	Fr Mod SE					
		30-48	SAP M	L					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	III	IV
Site LTAR	0.275	0.275

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Justo Henderson
OTHER(S) PRESENT: N/A

COMMENTS: N/A

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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PROPERTY ID #: 3784429508
DATE OF EVALUATION: 1-11-16
COUNTY: Iredell

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
Pit 5	13% slight HS	0-21	C SBK	Fi Mod SE	+61"	31"	31"	47"	PS 0.275
		21-31	BC WABK	Fr Mod SE					
		31-47	LSAP micc M	Fr Mod SE					
		47-67	Weathered Rock	CVFi					
			small rock vein 35-37"						
Pit 6	12% slight HS	0-16	C SBK	Fi Mod SE	+66"	40"	40"	40"	PS 0.275
		16-40	BC + Rock Weathered WABK	Fr Mod SE					
		40-66	Weathered Rock	Fi					

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

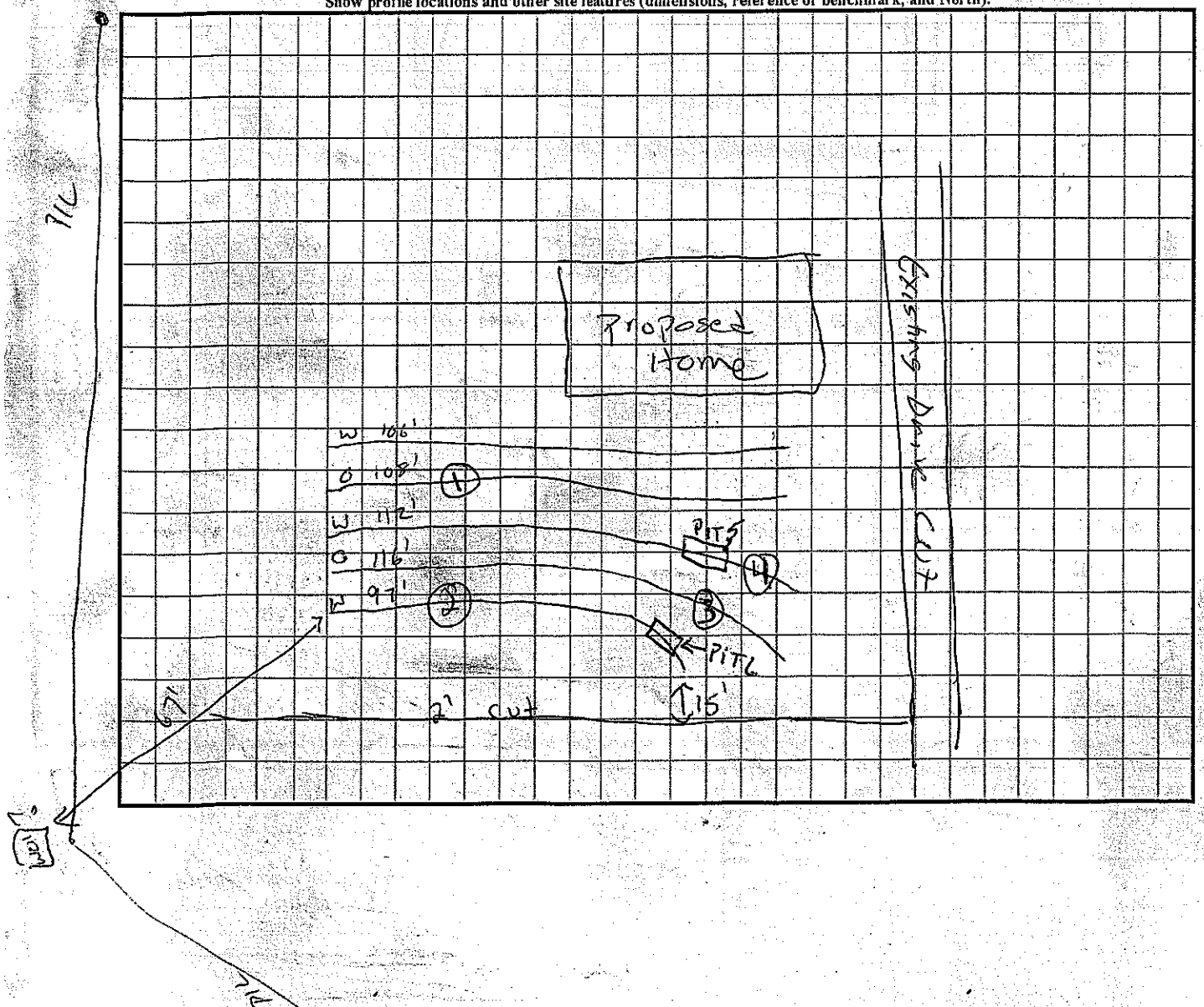
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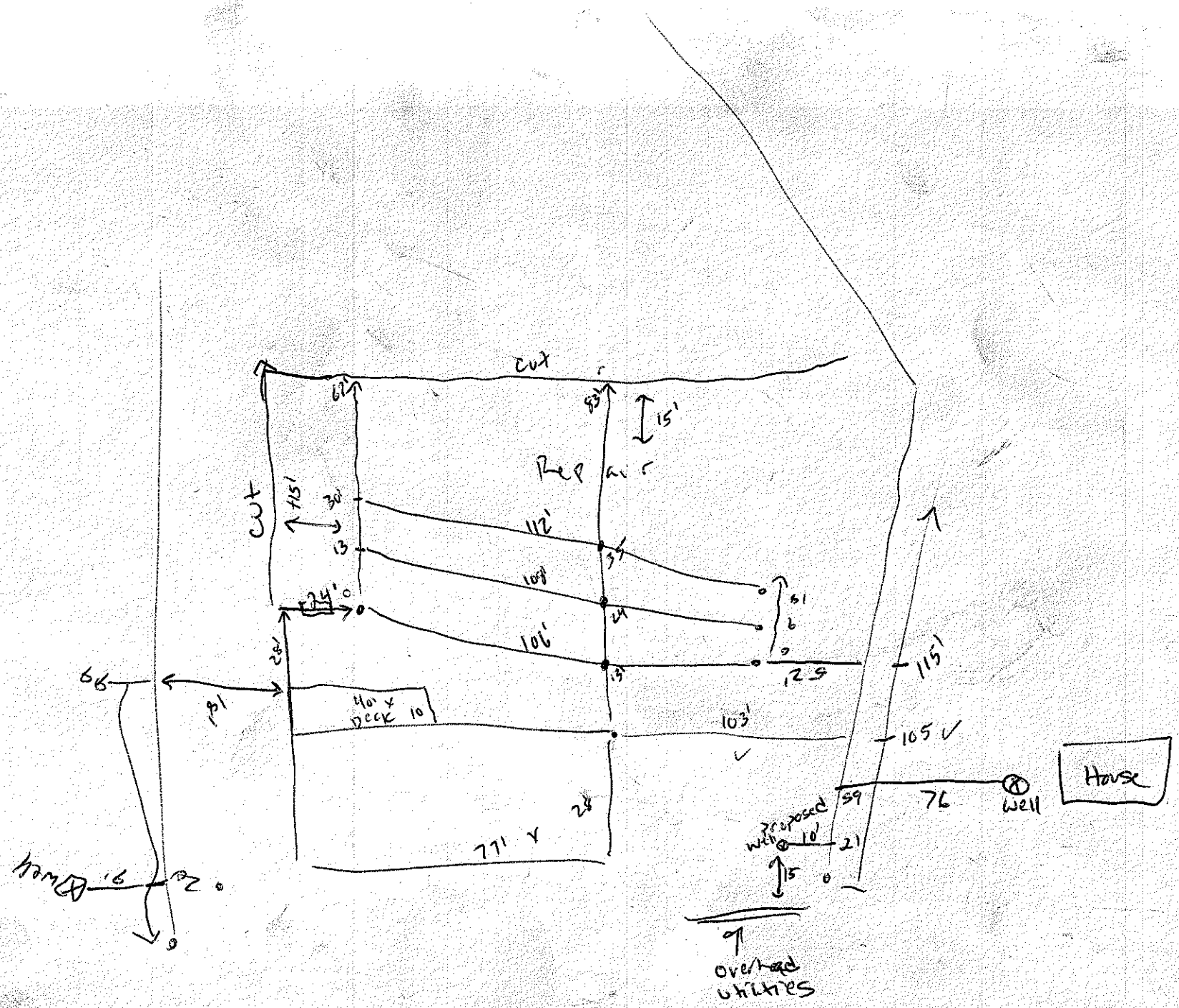
HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).




Cut
15'
Repair
Cut
15'
30'
13'
112'
104'
101'
24'
24'
51
6
0
125
115'
66
81
40' x DECK 10
103'
105
House
59
76
Well
Proposed Well
10'
21
15
0
28
77'
Overhead utilities